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NEWS 6 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 7 FEB 06 Patent sequence location (PSL) data added to USGENE
NEWS 8 FEB 10 COMPENDEX reloaded and enhanced
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NEWS 18 MAR 11 EPFULL backfile enhanced with additional full-text
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NEWS 19 MAR 11 ESBIOBASE reloaded and enhanced
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enhanced
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NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.
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***** STN Columbus *****

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=> file casreact
COST IN U.S. DOLLARS
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SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

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FILE CONTENT:1840 - 19 Apr 2009 VOL 150 ISS 17

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*                                     *  
*   CASREACT now has more than 16.5 million reactions   *  
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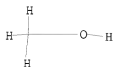
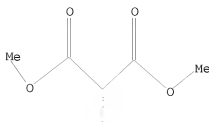
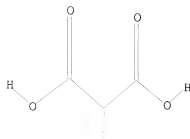
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L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:46:28 FILE 'CASREACT'
 SCREENING COMPLETE - 52 REACTIONS TO VERIFY FROM 16 DOCUMENTS
 100.0% DONE 52 VERIFIED 0 HIT RXNS 0 DOCS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED VERIFICATIONS: 608 TO 1472
 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 (0 REACTIONS)

=> s l1 full

FULL SEARCH INITIATED 13:46:32 FILE 'CASREACT'
 SCREENING COMPLETE - 2153 REACTIONS TO VERIFY FROM 295 DOCUMENTS
 100.0% DONE 2153 VERIFIED 3 HIT RXNS 2 DOCS
 SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1 (3 REACTIONS)

=> d l3 ibib abs hit 1-

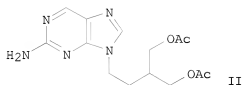
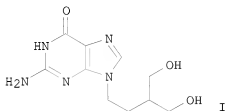
YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 2 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 146:402223 CASREACT

TITLE: Improved industrial syntheses of penciclovir and
 famciclovir using N2-acetyl-7-benzylguanine and a
 cyclic side chain precursor

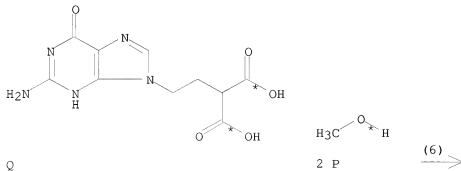
AUTHOR(S): Torii, Takayoshi; Yamashita, Keizo; Kojima, Mitsuhiko;
Suzuki, Yumiko; Hijiya, Toyoto; Izawa, Kunisuke
CORPORATE SOURCE: AminoScience Laboratories, Ajinomoto Co., Inc.,
Kawasaki-ku, Kawasaki, Japan
SOURCE: Nucleosides, Nucleotides & Nucleic Acids (2006),
25(4-6), 625-634
CODEN: NNNAFY; ISSN: 1525-7770
PUBLISHER: Taylor & Francis, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

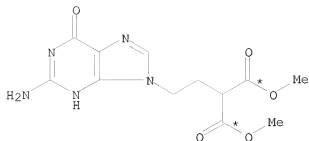


AB A practical synthetic methods for penciclovir (PCV) I and famciclovir (FCV) II via regioselective coupling reaction of N2-acetyl-7-benzylguanine (NAc7BnG) and 6,6-dimethyl-5,7-dioxaspiro[2.5]octane-4,8-dione, followed by debenzylation, is described.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RX(6) OF 24 ...Q + 2 P ==> A...





A
YIELD 95%

RX(6)

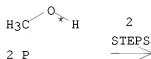
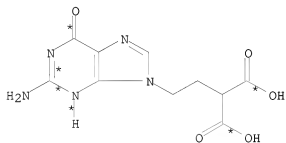
STAGE(1)
RGT T 7719-09-7 SOCl2
SOL 67-56-1 MeOH
CON SUBSTAGE(1) 0 deg C
SUBSTAGE(2) 0 deg C -> room temperature

STAGE(2)
RCT Q 234110-22-6, P 67-56-1
CON SUBSTAGE(1) 3.5 hours, 40 deg C
SUBSTAGE(2) 22.5 hours, 45 deg C
SUBSTAGE(3) cooled

STAGE(3)
RGT N 1310-73-2 NaOH
SOL 7732-18-5 Water
CON cooled, neutralized

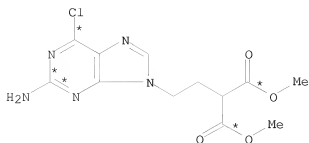
PRO A 234110-23-7

RX(14) OF 24 COMPOSED OF RX(6), RX(7)
RX(14) Q + 2 P ==> U



Q

2 P



U
YIELD 70%

RX(6)

STAGE(1)
RGT T 7719-09-7 SOCl₂
SOL 67-56-1 MeOH
CON SUBSTAGE(1) 0 deg C
SUBSTAGE(2) 0 deg C -> room temperature

STAGE(2)
RCT Q 234110-22-6, P 67-56-1
CON SUBSTAGE(1) 3.5 hours, 40 deg C
SUBSTAGE(2) 22.5 hours, 45 deg C
SUBSTAGE(3) cooled

STAGE(3)
RGT N 1310-73-2 NaOH
SOL 7732-18-5 Water
CON cooled, neutralized

PRO A 234110-23-7

RX(7) RCT A 234110-23-7

STAGE(1)
RGT V 56-34-8 Et₄N Cl, W 10025-87-3 POCl₃, X 121-69-7 PhNMe₂
SOL 75-05-8 MeCN
CON SUBSTAGE(1) 1 hour, 80 deg C
SUBSTAGE(2) 80 deg C -> 0 deg C

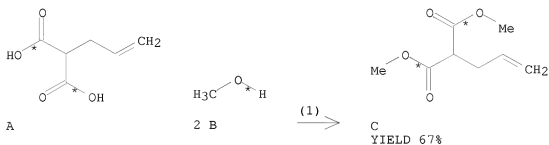
STAGE(2)
RGT N 1310-73-2 NaOH
SOL 7732-18-5 Water
CON 0 deg C

PRO U 172529-93-0

L3 ANSWER 2 OF 2 CASREACT COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 43:13117 CASREACT
TITLE: Physical properties and chemical constitution. XVI.
Ethylenic compounds
AUTHOR(S): Jeffery, Geo. H.; Vogel, Arthur I.
SOURCE: Journal of the Chemical Society (1948) 658-73
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB New measurements are presented of the parachors and refractivities at

20° for esters of vinylacetic, hendecenoic, and allylmalonic acid, for unsatd. aliphatic hydrocarbons, and for allyl esters of aliphatic monobasic acids and of succinic acid. Data for the following addnl. esters were included in the study: H, Me, Et, Pr, Bu, Am vinylacetates; Me, Et, Pr, Bu hendecenoates; Me, Et, Pr, Bu allylmalonnates; AcOC3H5, EtCO2C3H5, PrCO2C3H5, (CH2CO2C3H5)2; di-Me, di-Et, di-Pr, di-Bu, di-Am, diiso-Am (cis-trans) maleates; di-Et, di-Pr, di-Bu, diiso-Bu, di-Am, di-iso-Am (cis-trans) fumarates; di-Me, di-Et, di-Pr (cis-trans) citraconates; (cis-trans) di-Me, di-Et, di-Pr mesaconates; Me, Et, Pr, Bu, Am, iso-Am (trans) crotonates; and Et, Pr, Bu cinnamates. Likewise the following unsatd. hydrocarbons: C5H10, C6H12, C8H16, C10H20, C12H24, C14H28, C16H30. The contributions of the C:C was computed from the general relationship $|e| = CR1R2:CR3R4 + 2H \rightarrow CHR1R2CHR3R4$, employing the values for 2H from part IX (cf. C.A. 40, 3390.6) and the appropriate saturated compds. found in previous papers of this series. These lead to the following mean values: P 19.9, RC 1.545, RD 1.575, RF 1.672, RG' 1.720, Mn20D -6.07. These consts. differ considerably from those previously accepted. The measurements made upon alkyl maleates, fumarates, citraconates, mesaconates, methylsuccinates, trans-crotonates, and cinnamates were generally higher than the above mean values because of conjugation. While the parachor contributions appeared to be fairly constant, the cis isomers gave lower values for the refractivities than the corresponding trans isomers.

RX(1) OF 1 A + 2 B ==> C



RX(1) RCT A 2583-25-7, B 67-56-1
 PRO C 40637-56-7
 SOL 71-43-2 Benzene, 7664-93-9 H2SO4
 NTE Classification: Esterification; Alkoxylation; # Conditions: MeOH; benzene H2SO4; Rf 21h; # Comments: numerous examples